reflection of light between a total reflection window and an exit window;

a discharging electrode for exciting the laser gas through <u>electrical discharge</u> [electric discharging], so that laser light is outputted from said chamber;

laser gas within said chamber, so that the laser gas passing an electrical [electric] discharging region of said discharging electrode is circulated in said chamber and is returned to the electrical [said electric] discharging region of said discharging electrode; and

blower between (i) [controlling said circulating means so that said circulating means provides different gas() circulation capacities, being different for] an in-operation state in which the laser gas is excited by the electrical discharge [electric discharging] from said discharging) electrode and the laser light is being outputted, and (ii) [for] a stand by state in which no laser light is emitted.

but an output of the laser light is being prepared [which differs from said in-operation state but in which laser light 24 can be outputted].

Burk

900 000

- 2. (Amended) A gas laser device according to Claim 1, wherein said control means stops the revolution of said blower [is operable to stop the gas circulation through said circulating means] when said gas laser device is in the [said] stand-by state.
- 4. (Amended) A gas laser device according to Claim 2 [3], wherein said <u>blower</u> [blowing machine] has a blowing blade rotatably supported within said chamber.
- 5. (Amended) A gas laser device according to Claim 1, wherein said laser device comprises [one of] a noble gas halide excimer laser [and a F_2 laser].
- 6. (Amended) A gas laser device according to Claim 5, wherein said noble gas halide excimer laser comprises an [one of] XeCl excimer laser[, KrF excimer laser, and ArF excimer laser].
- 7. (Amended) A gas laser device according to Claim 1, further comprising an exposure apparatus for

2 mil

exposing a substrate to [with) the laser light supplied from said gas laser device.

two was

8. (Amended) A gas laser device according to Claim 7, wherein said control means stops the revolution of said blower [is operable to stop the gas circulation through said circulating means] when said gas laser device is in the [said] stand-by state.

- 10. (Amended) A gas laser device according to Claim 8, wherein said <u>blower</u> [blowing machine] has a blowing blade rotatably supported within said chamber.
- 11. (Amended) A gas laser device according to Claim 8, wherein said laser device comprises [one of] a noble gas halide excimer laser [and a F_2 laser].
- 12. (Amended) A gas laser device according to Claim 11, wherein said noble gas halide excimer laser comprises an [one of] XeCl excimer laser[, KrF excimer laser, and ArF excimer laser].

D

13. (Amended) An exposure apparatus, comprising:

a laser light source having (i) a chamber for sealingly storing a laser gas therein and for producing light amplification through reflection of light between a total reflection mirror and an exit window, (ii) a discharging electrode for exciting the laser gas through electrical; discharge [electric discharging] so that laser light is outputted from said chamber, and (iii) a blower [circulating means] for circulating the laser gas within said chamber so that the laser gas passing an electrical [electric] discharging region of said discharging electrode is circulated in said chamber and is returned to the electrical [said electric discharging region of said discharging electrode;

a main assembly for exposing a substrate to [with] To the laser light from said laser light source; and

blower between (i) [controlling said circulating means so, that said circulating means provides different gas circulation capacities, being different for] an exposure— operation state of said exposure apparatus in which exposure of the substrate to [with] the laser light from said laser

Stra

phy /

Jan J

light source can be performed through said main assembly, and (ii) [for] a non-exposure-operation state of said exposure apparatus.

14. (Amended) An apparatus according to Claim 13, wherein said control means increases the revolution speed of said blower [is operable to increase the gas circulation capacity of said circulating means] in response to a start of an exposure job in which the exposure operation is performed through said main assembly.

15. (Amended) An apparatus according to Claim 14, wherein said control means stops the revolution of said blower before a [is operable to hold gas circulation through said circulating means stopped before] start of the exposure job.

17. (Amended) An apparatus according to Claim 15 [16], wherein said <u>blower</u> [blowing machine] has a blowing blade rotatably supported within said chamber.

0

18. (Amended) An apparatus according to Claim 13, wherein said laser light source comprises [one of] a noble gas halide excimer laser [and a F_2 laser].

Day,

19. (Amended) An apparatus according to Claim 18, wherein said noble gas halide excimer laser comprises <u>an</u> [one of] XeCl excimer laser[, KrF excimer laser, and ArF excimer laser].

20. (Amended) A semiconductor device manufacturing method comprising:

sealingly storing a laser gas in a chamber, and producing light amplification through reflection of light between a total reflection window and an exit window;

exciting, using a discharging electrode, the laser gas through electrical discharge, and outputting laser light from the chamber;

circulating, using a blower, the laser gas within the chamber, so that the laser gas passing an electrical the discharging region of the discharging electrode is circulated in the chamber and is returned to the electrical discharging region of the discharging electrode; and

ت

Sur.

changing, using control means revolutions of the
blower between (i) an in-operation state in which the laser of the gas is excited by the electrical discharge from the discharging electrode and the laser light is being outputted, and (ii) a stand-by state in which no laser light is emitted, but an output of the laser light is being prepared [in which to a pattern is lithographically transferred onto a substrate by use of an exposure apparatus as recited in any one of Claims 7 - 19].

Please add claims 21 through 29 as follows:

--21. A gas laser device according to Claim 1, wherein said laser device comprises an F_2 laser.

22. A gas laser device according to Claim 5, wherein said noble gas halide excimer laser comprises a KrF excimer laser.

23. A gas laser device according to Claim 5, wherein said noble gas halide excimer laser comprises an ArF excimer laser.

- 24. A gas laser device according to Claim 8, wherein said laser device comprises an F_2 laser.
- 25. A gas laser device according to Claim 11, wherein said noble gas halide excimer laser comprises a KrF excimer laser.
- 26. A gas laser device according to Claim 11, wherein said noble gas halide excimer laser comprises an ArF excimer laser.
- 27. An apparatus according to Claim 13, wherein said laser light source comprises an F_2 laser.
- 28. An apparatus according to Claim 18, wherein said noble gas halide excimer laser comprises a KrF excimer laser.
- 29. An apparatus according to Claim 18, wherein said noble gas halide excimer laser comprises an ArF excimer laser.--.

Q-